

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE¹/₄ SE¹/₄ SE¹/₄ sec. 9, T. 18 S., R. 3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal National Forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WRD UT-81-1: 1979, 1980(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,500 ft (revised) above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and the period from May 12-June 16., which are poor. Records do not include flow diverted around station in an 8-inch pipeline, for culinary water for the city of Manti, and generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft³/s June 28, 1995, gage height, 5.49 ft; minimum, 0.9 ft³/s Nov. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 318 ft³/s Jun. 17, gage height 4.96 ft. but may have been higher during peiod of orifice damage May-June, minimum daily discharge 3.5 ft³/s, Feb. 23-24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.0	e4.8	4.7	4.2	e4.5	11	42	e198	52	20	12
2	5.1	6.4	e4.8	5.0	4.1	e4.5	11	35	e170	49	19	13
3	5.3	6.3	e5.0	7.8	4.1	e4.6	10	35	e140	47	18	14
4	5.3	6.1	e5.3	4.7	4.0	3.8	10	43	e92	47	20	12
5	5.2	5.8	e5.7	5.0	4.2	4.0	8.7	50	71	50	18	12
6	5.2	6.6	6.7	4.5	4.3	4.3	11	55	79	45	16	12
7	5.1	9.7	5.7	5.2	e4.5	4.7	9.3	60	79	43	16	11
8	5.1	8.0	5.8	4.7	e4.7	5.1	8.0	65	102	40	15	11
9	5.1	7.1	6.0	e4.7	e5.0	5.3	8.2	68	122	39	16	12
10	4.9	6.8	6.4	e4.7	e5.2	6.2	8.2	69	128	37	18	11
11	4.9	6.2	6.3	e5.0	e5.3	7.4	8.0	72	133	36	15	11
12	4.9	5.9	6.7	e5.0	e5.0	8.9	7.6	79	118	34	16	11
13	4.8	6.0	6.3	e4.8	e5.1	8.0	9.2	e60	112	34	15	11
14	5.1	5.7	5.7	e4.5	e5.2	7.1	8.5	e70	120	33	14	11
15	5.0	5.6	e5.0	4.2	e5.4	6.4	10	e85	144	31	14	11
16	5.3	5.4	e4.9	4.3	e5.5	6.6	13	e90	127	29	14	11
17	4.7	11	e5.4	e4.4	e5.2	6.7	15	e95	117	28	14	10
18	5.3	8.3	e4.7	e4.4	e5.0	7.9	19	e115	118	27	14	19
19	5.6	6.6	e5.5	4.4	e4.3	9.8	24	e150	106	28	13	17
20	4.9	6.5	e5.6	4.5	e4.7	13	29	e155	99	26	13	12
21	6.1	6.6	6.1	4.6	e4.2	14	33	e180	93	25	13	11
22	7.6	16	5.0	4.2	e3.7	15	30	e216	88	25	13	12
23	6.1	8.3	4.8	4.5	e3.5	15	29	e256	82	27	13	11
24	6.1	6.5	4.5	4.6	e3.5	13	27	e278	78	24	13	11
25	5.0	6.7	4.5	4.3	e3.6	11	25	e222	72	23	12	11
26	6.4	5.7	4.6	4.3	e4.5	12	26	e195	67	22	12	13
27	9.4	e5.7	4.7	4.2	e4.6	13	32	e180	64	21	12	12
28	5.9	e5.8	4.6	4.2	e4.0	11	41	e187	61	23	12	11
29	5.8	e7.2	4.5	4.1	---	10	43	e243	58	23	12	11
30	5.8	e6.9	4.5	4.2	---	11	37	e325	55	21	12	11
31	6.1	---	4.7	4.1	---	12	---	e215	---	20	12	---
TOTAL	172.2	211.4	164.8	143.8	126.6	265.8	561.7	3990	3093	1009	454	358
MEAN	5.55	7.05	5.32	4.64	4.52	8.57	18.7	129	103	32.5	14.6	11.9
MAX	9.4	16	6.7	7.8	5.5	15	43	325	198	52	20	19
MIN	4.7	5.4	4.5	4.1	3.5	3.8	7.6	35	55	20	12	10
AC-FT	342	419	327	285	251	527	1110	7910	6130	2000	901	710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

	1984	1985	1984	1984	1984	1986	1985	1984	1983	1995	1983	1995
MEAN	8.48	6.74	5.31	4.80	4.68	6.19	18.3	98.9	139	45.3	17.2	11.0
MAX	18.6	12.5	9.85	8.79	8.46	12.3	87.4	232	317	183	42.3	26.0
(WY)	1984	1985	1984	1984	1984	1986	1985	1984	1983	1995	1983	1995
MIN	4.32	3.77	3.35	3.05	3.13	3.22	5.46	47.1	32.2	11.9	5.75	4.47
(WY)	1990	1993	1979	1981	1967	1991	1967	1990	1966	1966	1966	1966

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1965 - 1997

ANNUAL TOTAL	8965.7	10550.3										
ANNUAL MEAN	24.5	28.9								30.5		
HIGHEST ANNUAL MEAN										61.0		1984
LOWEST ANNUAL MEAN										14.1		1989
HIGHEST DAILY MEAN				191	May 16		325	May 30		547	Jun 28	1995
LOWEST DAILY MEAN				4.5	Feb 28		3.5	Feb 23		2.4	Jan 8	1981
ANNUAL SEVEN-DAY MINIMUM				4.6	Dec 24		3.9	Feb 22		2.6	Jan 8	1981
ANNUAL RUNOFF (AC-FT)				17780			20930			22120		
10 PERCENT EXCEEDS				84			83			80		
50 PERCENT EXCEEDS				6.6			11			8.5		
90 PERCENT EXCEEDS				5.0			4.5			4.1		

e Estimated